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PPLICATION NO).	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION N
10/812,525	525 03/29/2004		Stephen M. Trimberger	X-1006-2C US	3296
24309	7590	05/20/2005		EXAMINER	
XILINX,		4 P. m. 472 IM	TAN, VIBOL		
ATTN: LEGAL DEPARTMENT 2100 LOGIC DR				ART UNIT	PAPER NUMBER
SAN JOSE, CA 95124				2819	

DATE MAILED: 05/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Commence	10/812,525	TRIMBERGER, STEPHEN M.				
Office Action Summary	Examiner	Art Unit				
	Vibol Tan	2819				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period was Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	16(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE!	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 04 Ma	a <u>y 2005</u> .					
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowan closed in accordance with the practice under E.						
Disposition of Claims						
 4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-8 and 10 is/are rejected. 7) Claim(s) 9 and 11-20 is/are objected to. 8) Claim(s) are subject to restriction and/or 						
Application Papers						
9) The specification is objected to by the Examiner						
10) The drawing(s) filed on is/are: a) acce	epted or b) \square objected to by the E	Examiner.				
Applicant may not request that any objection to the c	3(-,					
Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Example 11.		, ,				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of 	have been received. have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No d in this National Stage				
Attachment(c)						
Attachment(s) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da					

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 3-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. Claim 3 recites the limitation "the output of time" and "the destination configurable logic block" in lines 6 and 7, respectively. There is insufficient antecedent basis for this limitation in the claim.

Claims 4 and 5 recite the limitation "the multiple signal sources" in line 1. There is insufficient antecedent basis for this limitation in the claim.

Claim 6 recites the limitation "the time multiplexing signal" in line 1. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that - - - form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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5. Claims 1, 2, 7, 8 and 10 are rejected under 35 U.S.C. 102(e) as being anticipated by Srinivasan et al. (U. S. PAT. 6,698,006).

In claim 1, Srinivasan et al. teaches all claimed features in Fig. 1, a method for time multiplexing signals comprising: merging (placing) a set of nets (103) carrying the signals into a shared interconnect portion (interconnection; col. 1, line 56); altering a netlist (107, physical optimization) based on the merging; and placing a design represented by the altered netlist (109).

In claim 2, Srinivasan et al. teaches all claimed features in Fig. 1, a method of time multiplexing signals on interconnect in a programmable logic device, the method comprising: merging (placing) the nets (103) into a shared interconnect portion (interconnection; col. 1, line 56); altering the design (107, physical optimization) based on the merging; placing the altered design (109); and routing the altered design (114).

In claim 7, Srinivasan et al. further teaches all claimed features in Fig. 4, the method of Claim 1, further comprising a step of analyzing nets for high latency signals (202).

In claim 8, Srinivasan et al. further teaches all claimed features the method of Claim 7 in Fig. 8, further comprising a step of collecting the nets having high latency signals into shared interconnect groups (281).

In claim 10, Srinivasan et al. further teaches all claimed features the method of claim 1 in Fig. 1, further comprising a step of performing an initial routing of the set of nets (114).

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6. Claims 9 and 11-20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

7. Applicant's arguments with respect to claims 1-6 have been considered but are moot in view of the new ground(s) of rejection.

Claims 1, 2, 7, 8 and 10 are rejected under 35 U.S.C. 102(e) as being anticipated by Srinivasan et al., as discussed above; wherein claims 4-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vibol Tan whose telephone number is (571) 272-1811. The examiner can normally be reached on Monday-Friday (7:00 AM-4:30 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike J. Tokar can be reached on (571) 272-1812. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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VIBOLTAN
PRIMARY EXAMINER